MPS4249

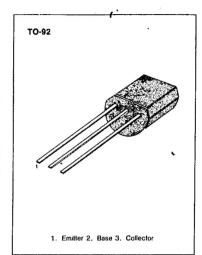
PNP EPITAXIAL SILICON TRANSISTOR

AMPLIFIER TRANSISTOR

- Collector-Emitter Voltage: V_{CEO} = 60V
- Collector Dissipation: Pc (max)=200mW

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage Collector-Emitter Voltage Collector-Emitter Voltage Emitter-Base Voltage	V _{CBO} V _{CEO} V _{CES} V _{EBO}	60 60 60 5	V V V	
Collector Dissipation Junction Temperature Storage Temperature	P _C T _i Tstg	200 150 -55~150	mW °C °C	



ELECTRICAL CHARACTERISTICS (T₈=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{C} = 10 \mu A, I_{B} = 0$	60			v
*Collector-Emitter Sustaining Voltage	BV _{CEO} (Sus)	$I_{C} = 5mA, I_{B} = 0$	60			V
Collector-Emitter Breakdown Voltage	BV _{CES}	$I_{C} = 10 \mu A$, $V_{BE} = 0$	60			V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_E = 10 \mu A$, $I_C = 0$	5			V
Collector Cut-off Current	Ісво	V _{CB} = 40V, I _E = 0			10	nΑ
Emitter Cut-off Current	I _{EBO}	$V_{BE} = 3V_{r} I_{C} = 0$			20	nA
DC Current Gain	h _{FE}	$I_C = 100 \mu A$, $V_{CE} = 5 V$	100		300	
		Ic=1mA, VcE=5V	100			i
		I _C =10mA, V _{CE} =5V	100		ļ	
*Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{c} = 10 \text{mA}, I_{s} = 0.5 \text{mA}$			0.25	V
*Base-Emitter Saturation Voltage	Vas (sat)	$I_{c} = 10 \text{mA}, I_{B} = 0.5 \text{mA}$			0.9	V
Output Capacitance	Cob	$V_{CB} = 5V, I_{E} = 0$			6	pF
		f=1MHz				
Noise Figure	NF	$I_C = 20 \mu A$, $V_{CE} = 5 V$			3	dB
		$R_s = 10 K\Omega$, $f = 1 KHz$				
		$I_C = 250 \mu A$, $V_{CE} = 5V$			3	dB ₄
		$R_s = 1K\Omega$, $f = 1KHz$				

^{*} Pulse Test: Pulse Width ≤ 300μs, Duty Cycle ≤ 2%